


Welcome to our course
“Biology meets Programming -
Introduction to Bioinformatics
using Python”

Course structure

1. Short video
2. Try out the syntax in colab  python™ <https://colab.research.google.com/>
3. Short break for discussions.
4. Assignments.
5. Short break for discussions.

Introduction

- Python is a common programming language which was created and released in 1991.
- It can be used in different fields such as web development, big data, databases, software development and data science.
- Python has a simple syntax that makes it easy to learn.
- Python works on different platforms, such as Windows, Linux and Macintosh.
- We will use Python 3 in this tutorial, Python Version 2 was discontinued in 2020.

Syntax

- Variables can assign a value to it:

```
my_variable = 'hello'
```

variable value


- Use comments to document your code:

Hashtag #

```
# This is a comment.  
# Python will render the rest of the line as a comment and ignore it.  
print("Hello, World!")
```

Data Types

- Variables can store data of different types, and different types can do different things.

```
 # Text Type  
# str()  
text = "hello"
```

```
[ ] # Numeric Types  
# int()  
number = int(3)  
# float()  
my_float = float(3.0)
```

```
[ ] # Sequence types (lists)  
# lst()  
my_list = ['A', 'C', 'T', 'G']
```

```
[ ] # Mapping type (dictionary)  
# dict()  
my_dict = {'one':1,  
           'two':2}
```

Let's go!

